Name of work: Modified Estimate for Improvements to Roads and Drains and Asphalting to roads near Veerabadraswamy Temple, Thindlu in Ward No. 09 in Vidyaranyapura sub Division.

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							Estimate Cost Rs.		**3959140.00**
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 138 / Item No. 19.1 / PWD SR 2014-15**	Cum							
	RCC Drain E/S Temple		1	56.20	0.90	0.90	45.52		
			1	15.00	0.90	0.90	12.15		
	N/S Temple		1	27.30	0.90	0.90	22.11		
	Culvert		1	25.50	0.90	0.90	20.66		
	For CC Road Temple E/S		1	9.60	1.30	0.90	11.23		
	Aswathkatte		1	47.20	15.75	0.15	111.51		
	From Temple towards Lakeshore Garden		1	9.40	7.70	0.15	10.86		
	CC Road 1		1	66.60	7.00	0.15	69.93		
	CC Road 2		1	80.00	5.90	0.15	70.80		
	Desilting of Drain from Kodigehalli main road to Aswathkatte		1	90.00	1.00	0.15	13.50		
			1	43.20	0.45	0.25	4.86	TP	
							393.13	75.60	**29721.00**
2	Removing B.S Slab of Drain and stacking **Page No. 25 / Item No. 5.32 / PWD SR 2014-15**	Sqm							
	from Kodigehalli main road to Aswathkatte		1	35.00		1.35	47.25		
	Temple W/S		1	40.00		1.35	54.00		
			1	30.00		1.35	40.50	TP	
							141.75	58.32	**8267.00**
3	Refixing stone slabs of drains and pointing in C.M (1:3) **Page No. 25 / Item No. 5.33 / PWD SR 2014-15**	Sqm						TP	
			Qty Vide Item No. 2				**141.75**	75.60	**10716.00**
4	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2014-15**	Cum							
	RCC Drain E/S Temple		1	56.20	0.90	0.15	7.59		
			1	15.00	0.90	0.15	2.03		
	N/S Temple		1	27.30	0.90	0.15	3.69		
	Culvert		1	25.50	0.90	0.15	3.44		
	For CC Road Temple E/S		1	9.60	1.30	0.15	1.87		
			1	47.20	15.75	0.15	111.51		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			1	9.40	7.70	0.15	10.86		
	CC Road 1		1	80.00	5.90	0.15	70.80		
	CC Road 2		1	90.00	1.00	0.15	13.50		
	Total Executed Qty						**225.28**	TP	
	Qty upto 125%						**131.66**	4847.04	**638173.00**
	Qty Above 125%						**93.62**	5159.02	**482969.00**
	PWD SR 2016-17 Basic Rate	4867.00							
	Area Weightage @ 6%	292.02							
	Total	**5159.02**							
5	Providing and laying cement concrete using 20mm and down size granite jelly of **ready mixed concrete (RMC)for R.C.C works** laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. **Page No. 18 / Item No. 4.48 / PWD SR 2014-15**	Cum							
	For CC Road Temple E/S		1	47.20	15.75	0.125	92.93		
			1	9.40	7.70	0.125	9.05		
	CC Road 1		1	80.00	5.90	0.125	59.00		
	CC Road 2		1	90.00	4.60	0.125	51.75		
	Total Executed Qty						**212.72**	TP	
	Qty upto 125%						**80.63**	5847.12	**471424.00**
	Qty Above 125%						**132.10**	6231.74	**823197.00**
	PWD SR 2016-17 Basic Rate	5879.00							
	Area Weightage @ 6%	352.74							
	Total	**6231.74**							
6	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift No. **171 / Item No. 22.7 / PWD SR 2014-15**	Sqm							
	For CC Road Temple E/S		1	47.20	15.75		743.40		
			1	9.40	7.70		72.38		
	CC Road 1		1	80.00	5.90		472.00		
	CC Road 2		1	90.00	4.60		414.00		
							1701.78	TP	
	Qty upto 125%						**645.00**	97.20	**62694.00**
	Qty Above 125%						**1056.78**	95.40	**100817.00**
	PWD SR 2016-17 Basic Rate	90.00							
	Area Weightage @ 6%	5.40							
	Total	**95.40**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
7	Providing **groove cutting** for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine, generator and HOM of machinery including cost of blade coolant etc including cleaning of groove and providing sand and hot bitumne fillars, and filler metal etc., indluding cost of converyance of all materials, labours, lead and lift charges and all other incidental charges as per drawing and as per specification **Concrete Pavement Page No. 172 / Item No. 22.8.1 / PWD SR 2014-15**	Rmt							
			5	15.75			78.75		
			1	7.70			7.70		
			8	5.90			47.20		
			9	4.60			41.40		
							175.05	TP	
	Qty upto 125%						**67.50**	124.20	**8384.00**
	Qty Above 125%						**107.55**	121.90	**13110.00**
	PWD SR 2016-17 Basic Rate	115.00							
	Area Weightage @ 6%	6.90							
	Total	**121.90**							
8	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 **Page No. 23 / Item No. 5.9 / PWD SR 2014-15**	Cum							
			Not Executed					TP	
								4542.40	
9	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls** at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31 / PWD SR 2014-15**	Sqm							
	RCC Drain E/S Temple		4	56.20		0.60	134.88		
			4	15.00		0.60	36.00		
			4	27.30		0.60	65.52		
	N/S Temple		4	25.50		0.60	61.20		
	Culvert		4	9.60		0.60	23.04		
	Cuvert Covering Slab Bottom		1	9.60	0.90		8.64		
			2	9.60		0.25	4.80		
			2	1.20		0.25	0.60		
							334.68	292.68	**97954.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
10	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal**, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, **Page No. 13 / Item No. 4.11 / PWD SR 2014-15**	Cum							
	RCC Drain Bottom Concrete E/S Temple		1	56.20	0.90	0.15	7.59		
			1	15.00	0.90	0.15	2.03		
			1	27.30	0.90	0.15	3.69		
	N/S Temple		1	25.50	0.90	0.15	3.44		
	Culvert		1	9.60	1.20	0.15	1.73		
	Side Wall								
	RCC Drain Bottom Concrete E/S Temple		2	56.20	0.15	0.60	10.12		
			2	15.00	0.15	0.60	2.70		
			2	27.30	0.15	0.60	4.91		
	N/S Temple		2	25.50	0.15	0.60	4.59		
	Culvert		2	9.60	0.23	0.60	2.65		
	Culvert Covering Slab		1	9.60	1.20	0.23	2.65		
							46.09	6065.28	**279532.00**
11	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **TMT Bars FE 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2014-15**	Tonne							
			0.060	46.09			2.77	TP	
							2.77	78351.84	**216661.00**
12	KSRRB 300-47: scarifying kankar / gravel / metal crust upto 150mm thick with pick axes and disposal of stuff within a lead of 100 meters including cost of all labour charges complete as per specifications MORTH chapter 3, **No. 143 / Item No. 19.53 / PWD SR 2014-15**	Sqm							
			1	60.00	5.00		300.00		
								TP	
							300.00	22.68	**6804.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
13	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per MORTH specification NO. 406, **Page No. 154 / Item No. 20.18 / PWD SR 2014-15**	Cum							
			1	60.00	5.50	0.23	75.90		
								TP	
							75.90	1438.56	**109187.00**
14	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM, WMM including cleaning of road surface and spraying primer at the rate of 0.60 Kg / sqm using mechnical means complete as per specifications. MORTH specification NO. 502, **Page No. 157 / Item No. 21.6 / PWD SR 2014-15**	Sqm							
			1	60.00	5.50		330.00		
								TP	
							330.00	31.32	**10336.00**
15	KSRRB M500-19: Providing and laying **bituminous concrete** crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grad, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve, the desired compaction as per MORTH specification clauses No. 500.9 complete in all respects complete as pr specifications. **Using 100/120 TPH capacity H.M.P with sensor paver Gr-II (30 mm to 45 mm) with 6 % CRMB 55 Page No. 151 / Item No. 21.23 / PWD SR 2014-15**	Cum							
			1	60.00	5.50	0.04	13.20		
								TP	
							13.20	10288.08	**135803.00**
16	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 11.90 Km (Page No.123,	Cum							
			Qty. Vide Item No. 1				**393.13**	73.57	**28923.00**
	EIRL								

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
17	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.6 PWD SR 2016-17**	Cum							
	Drain Vent from Kodigehalli main road to Aswathkatte		1	43.20	0.45	0.10	1.94		
	Temple W/S		1	45.00	0.45	0.10	2.03		
			1	35.00	0.45	0.10	1.58		
							5.54	5876.28	**32578.00**
	PWD SR 2016-17 Basic Rate	5441.00							
	Area Weightage @ 6%	435.28							
	Total	**5876.28**							
18	**Providing precast slab of 100 mm thick** including cost of all materials, labour, curing, transportation, loading and unloading, etc.,complete as per the direction of engineer in charge- Data rate	Sqm							
	RCC Drain Bottom Concrete E/S Temple		1	56.20	0.90		50.58		
			1	15.00	0.90		13.50		
			1	27.30	0.90		24.57		
							88.65	1760.00	**156024.00**
19	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete **Page No. 25 / Item No. 5.30 PWD SR 2016-17**	No							
	Kerb Stone		1	47.20			105		
				0.45					
							105	331.78	**34800.00**
	PWD SR 2016-17 Basic Rate	313.00							
	Area Weightage @ 6%	18.78							
	Total	**331.78**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
20	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. **Page No. 122 / Item No. Item No. 15.80, PWD SR 2016-17**	Sqm							
	Kerb Stone Painting		1	47.20		0.35	16.52		
	PWD SR 2016-17 Basic Rate	26.00					**16.52**	27.56	**455.00**
	Area Weightage @ 6%	1.56							
	Total	**27.56**							
21	KSRB 15-19.2 : Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.**Page No. 122 / Item No. Item No. 15.81, PWD SR 2016-17**	Sqm							
			Qty Vide Item No. 20				16.52		
	PWD SR 2016-17 Basic Rate	66.00					**16.52**	69.96	**1156.00**
	Area Weightage @ 6%	3.96							
	Total	**69.96**							
22	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete7.5 cms thick **Page No. 25 / Item No. 5.31.1/ PWD SR 2016-17**	Sqm							
	N/S Temple		1	25.50		0.90	22.95		
			1	45.00		0.90	40.50		
			1	35.00		0.90	31.50		
	PWD SR 2016-17 Basic Rate	628.00		**105.50**			**94.95**	665.68	**63206.00**
	Area Weightage @ 6%	37.68							
	Total	**665.68**							
23	KSRB 5-9: Providing chamfering edges to stone slab 2.5cms. wide as per specifications. (only chamfered length shall be recorded) KBS 5.1.13 **Page No. 24 / Item No. 5.22 / PWD SR 2016-17**	m							
			176	3.00			**527.50**	37.10	**19570.00**
	PWD SR 2016-17 Basic Rate	35.00							
	Area Weightage @ 6%	2.10							
	Total	**37.10**							
24	KSRB 5-8.2 : Providing two line dressing to granite stone slab / granite stone masonry as per specifications. KBS 5-1.13 **Page No. 24 / Item No. 5.18 / PWD SR 2016-17**	Sqm							
			Qty Vide Item No. 22				94.95		
	PWD SR 2016-17 Basic Rate	909.00					**94.95**	963.54	**91488.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	PWD SR 2016-17 Basic Rate	909.00					**126.60**	963.54	**121984.00**
	Area Weightage @ 6%	54.54							
	Total	**963.54**							
29	Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members asshown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specifiocation. **Page. No. 43 / Item. No. 7.37 PWD SR 2016-17**	Sqm							
	Gate		1	3.00		1.80	5.40		
			1	1.50		1.80	2.70		
	PWD SR 2016-17 Basic Rate	2934.00					**8.10**	3110.04	**25191.00**
	Area Weightage @ 6%	176.04							
	Total	**3110.04**							
								Total	**3959081.00**

Rupees Thirty Nine Lakh(s) Fifty Nine Thousand Eighty One Only

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This Modifed estimate is prepared as per Tender Premium and PWD SR of 2015-16.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

"Modified"
"Technical Sanction"
Accorded For 39.59 lakh Rs
Head of A/C P1771
CER NO "17" Dt. 04/12/17

TA CE (YNK)